1	Attorney Docket No. 83723
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3	BUOYANT DEVICE FOR BI-DIRECTIONAL ACOUSTO-OPTIC
4	SIGNAL TRANSFER ACROSS THE AIR-WATER INTERFACE
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6	ABSTRACT OF THE DISCLOSURE
7	A buoy system bi-directionally communicates in-air and
8	underwater. A buoy having a shell to float on water has an upper
9	portion in air and a lower portion in water. An array of acoustic
10	transducers which is disposed in the lower portion receives
11	acoustic signals and transmits acoustic signals. A dome-shaped
12	retro-reflective coating on the upper portion is vibrated for
13	retro-reflecting impinging laser illumination as data signals in
14	air. An array of photo-detectors on the upper portion are
15	responsive to impinging laser control signals and/or signals
16	which may be transmitted as acquistic signals in water